Faculty of Social Sciences

SGEG17, GIS in Development Studies - Applications, 7.5 credits

GIS för utvecklingsstudier - tillämpningar, 7,5 högskolepoäng

First Cycle / Grundnivå

Details of approval

The syllabus is an old version, approved by Faculty Board of Social Sciences on 2011-11-17 and was last revised on 2016-09-06 by the board of the Department of Human Geography. . The revised syllabus applied from 2017-01-16. , spring semester 2017.

General Information

The course is offered as a freestanding course.

Language of instruction: English

Main field of studies	*Depth of study relative to the degree requirements*
Human Geography	G1F, First cycle, has less than 60 credits in first-cycle course/s as entry requirements

Learning outcomes

To pass the examination, students must be able to

Knowledge and understanding

- demonstrate knowledge about, and application of, key theory and practice when using GIS within social science and development studies,
- demonstrate basic knowledge in spatial statistics and remote sensing within course themes,
- demonstrate good knowledge in handling scientific problems in a spatial context,
- demonstrate good knowledge in working independently in a GIS-software,

Competence and skills

- demonstrate complex GIS-skills in spatial analysis and visualisation,
- demonstrate the ability to practically apply GIS on spatial problems,
- demonstrate the ability to combine different sources in a critical way,

Judgement and approach

- demonstrate the ability to compare pros and cons with GIS in relation to general problem solving in other research contexts,
- demonstrate the ability to critically examine maps and analytical techniques connected to spatial problems,
- demonstrate the ability to critically analyse and evaluate geographic information and its sources and effectively communicate results.

Course content

The course aims to provide deepening knowledge of GIS applications in the field of development studies.

The course consists of a few longer exercises which covers analytical methods and tools in GIS as wells as exercises that can be adapted to students' academic and professional background and interest. Exercises are presented in oral, written and cartographic form.

Course design

Teaching is carried out through a mixture of lectures, seminars, laboratory sessions, readings, small group teaching methods and supervision.

Unless there are valid reasons to the contrary, compulsory participation is required in seminars. Students who have been unable to participate due to circumstances such as accidents or sudden illness will be offered the opportunity to compensate for or re-take compulsory components. This also applies to students who have been absent because of duties as an elected student representative.

Assessment

Assessment of the course will be based on 2 written take-home exams, a project work and an oral seminar presentation.

Three opportunities for examination are offered in conjunction with the course: a first examination and two re-examinations. Two further re-examinations on the same course content are offered within a year of the end of the course. After this, further re-examination opportunities are offered but in accordance with the current course syllabus.

Subcourses that are part of this course can be found in an appendix at the end of this document.

Grades

Marking scale: Fail, E, D, C, B, A.
The grade for a non-passing result is Fail. The student's performance is assessed with reference to the learning outcomes of the course. For the grade of E the student must

show acceptable results. For the grade of D the student must show satisfactory results. For the grade of C the student must show good results. For the grade of B the student must show very good results. For the grade of A the student must show excellent results. For the grade of Fail the student must have shown unacceptable results.

The oral seminar presentation is exempted from the grading scale above. The grades awarded for this component is Pass or Fail. For the grade of Pass, the student must show acceptable results. For the grade of Fail, the student must have shown unacceptable results.

The calculation of the course grade is determined by student's performance on the written take-home exams (weighted 40 %) and the project work (weighted 60 %). The calculation is based on a mathematical formula in which the letter grades are translated into the following figures: A=5.0; B=4.0; C=3.5; D=3.0 and E=2.5. An average is then calculated. Figures are rounded down, with the exception of the grade of A for which the figure of 4.5 and over is rounded up to A.

At the start of the course students are informed about the learning outcomes stated in the syllabus and about the grading scale and how it is applied in the course.

Entry requirements

The course builds on previous studies in introductory GIS. To be qualified student must also have basic knowledge in GIS, acquired through SGEG16 GIS in Social Sciences – Basic Level (7,5 credits), or the equivalent.

General and courses corresponding to the following Swedish Upper Secondary School Programs: Mathematics A, English course B and Civics A

For international students:

English language proficiency demonstrated in one of the following ways:

• IELTS score (Academic) of 6.5 or more (with none of the sections scoring less than 5.5),

• TOEFL score of 575 or more (internet based 90),

• Cambridge/Oxford - Advanced or Proficiency level, O level/GCSE,

• A bachelor´s Degree from a university where English is the ONLY language of instruction, according to the latest edition of International Handbook of Universities

Further information

The course cannot be included in a degree together with the course SGEG14 GIS in Development Studies - Applications, 7,5 credits.

Subcourses in SGEG17, GIS in Development Studies - Applications

Applies from V12

1101 GIS in Development Studies - Applications, 7,5 hp
Grading scale: Fail, E, D, C, B, A